

## Job Risk Assessment

<b>Name(s) of Specific Application Risk Team Members:</b> Ken Krasner, Tom Dilgen, Glenn Jochen	<b>Point Value → Parameter ↓</b>	1	2	3	4	5
<b>Job Title: Cryogenic Operations During Magnet Test</b>  <b>Job Number or Job Identifier: JRA-28-07</b>	<b>Frequency (B)</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Job Description: Provide cryogenic Argon for coil curing gaseous purge.</b>	<b>Severity (C)</b>	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
<b>Training Procedures List (Optional):</b>	<b>Likelihood (D)</b>	Very Unlikely	Unlikely	Possible	Probable	Multiple
<b>Approved by: E. Lessard    Date: 4-27-07    Rev. #: 0</b>						
<b>Stressors (if applicable, please list all)</b>		<b>Reason for Revision (if applicable):</b>				<b>Comments:</b>

  

Activity	Hazard	Control(s)	Before Additional Controls					Control(s) Added to Reduce Risk	After Additional Controls					% Risk Reduction	
			Stressor	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	Stressors	# of People A	Frequency B	Severity C		Likelihood D
Delivery of Argon dewars to Building 902	Struck by delivery vehicle	Work Planning, training,	N	1	3	3	2	18							
Delivery of Argon dewars to Building 902	Falls from same level	Proper shoes, floor cleanliness, maintenance of surfaces	N	1	3	2	2	12							

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Offload dewars from truck to floor using lift gate.	Struck by lift gate	Work planning, training, authorized personnel only in area	N	2	3	3	2	36									
Offload dewars from truck to floor using lift gate.	Dewar falls off lift gate	Work planning, training, authorized personnel only in area	N	2	3	3	2	36									
Move full Argon dewars to LARP oven	Crane operations including selection of rigging, connection to hook, movement of load	JRA 2-06, Work Planning,	N	2	3	3	2	36									
Connect Argon dewars to manifold	Use of hand tools	Trained and authorized personnel	N	1	4	1	2	6									
Connect Argon dewars to manifold	Cryogenic hazards	Trained and authorized personnel, PPE	N	1	4	2	2	16									
Change out dewars when one is empty	Use of hand tools	Trained and authorized personnel	N	1	4	1	2	6									

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Change out dewars when one is empty	Cryogenic hazards	Trained and authorized personnel, PPE	N	1	4	2	2	16									
Move empty Argon dewars to loading dock area	Crane operations including selection of rigging, connection to hook, movement of load	JRA 2-06, Work Planning,	N	2	3	3	2	36									
Load empty dewars on truck.	Struck by delivery vehicle	Work Planning, training,	N	1	3	3	2	18									
Load empty dewars on truck.	Falls from same level	Proper shoes, floor cleanliness, maintenance of surfaces	N	1	3	2	2	12									
*Risk:	0 to 20	21 to 40	41-60						61 to 80			81 or greater					
	Negligible	Acceptable	Moderate						Substantial			Intolerable					
Further Description of Controls added to Reduce Risk:																	